

FILED 'HOME' ENTERED AT 12:55:58 ON 02 JUN 2005

10/082, 714

=> file biosis medline caplus wpids uspatfull  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
SESSION  
FULL ESTIMATED COST ENTRY 0.21 0.21

FILE 'BIOSIS' ENTERED AT 12:56:18 ON 02 JUN 2005

Copyright (c) 2005 The Thomson Corporation

FILE 'MEDLINE' ENTERED AT 12:56:18 ON 02 JUN 2005

FILE 'CAPLUS' ENTERED AT 12:56:18 ON 02 JUN 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 12:56:18 ON 02 JUN 2005  
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'USPATFULL' ENTERED AT 12:56:18 ON 02 JUN 2005  
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s biosensor? and hybridization  
L1 6493 BIOSENSOR? AND HYBRIDIZATION

=> s 11 and amperometric  
I:2 195 I:1 AND AMPEROMETRIC

=> s 12 and pulse amperometric  
L3 2 L2 AND PULSE AMPEROMETRIC

⇒ d 13 bib abs 1-2

L3 ANSWER 1 OF 2 USPATFULL on STN  
AN 2004:94706 USPATFULL  
TI Electrochemical detection of nucleic acid sequences  
IN Henkens, Robert W., Beaufort, NC, UNITED STATES  
O'Daly, John P., Carrboro, NC, UNITED STATES  
Wojciechowski, Marek, Cary, NC, UNITED STATES  
Zhang, Honghua, San Diego, CA, UNITED STATES  
Naser, Najih, Orlando, FL, UNITED STATES  
Roe, R. Michael, Apex, NC, UNITED STATES  
Stewart, Thomas N., Durham, NC, UNITED STATES  
Thompson, Deborah M., Raleigh, NC, UNITED STATES  
Sundseth, Rebecca, Durham, NC, UNITED STATES  
Wegner, Steven E., Chapel Hill, NC, UNITED STATES  
PI US 2004072158 A1 20040415  
AI US 2002-82714 A1 20020225 (10)  
RLI Division of Ser. No. US 2000-549853, filed on 14 Apr 2000, GRANTED, Pat.  
No. US 6391558 Continuation-in-part of Ser. No. US 1998-44206, filed on  
17 Mar 1998, ABANDONED  
PRAI US 1997-40949P 19970318 (60)  
DT Utility  
FS APPLICATION  
LREP Atten. Gregory A Nelson, Akerman Senterfitt, Suite 400, 222 Lakeview  
Avenue P O Box 3188, West Palm Beach, FL, 33402-3188  
CLMN Number of Claims: 21  
ECL Exemplary Claim: 1  
DRWN 20 Drawing Page(s)  
LN.CNT 4480  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB An electrochemical detection system which specifically detects selected  
nucleic acid segments is described. The system utilizes biological

probes such as nucleic acid or peptide nucleic acid probes which are complementary to and specifically hybridize with selected nucleic acid segments in order to generate a measurable current when an **amperometric** potential is applied. The electrochemical signal can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 2 USPATFULL on STN  
AN 2002:116000 USPATFULL  
TI Electrochemical detection of nucleic acid sequences  
IN Henkens, Robert W., Beaufort, NC, United States  
O'Daly, John P., Carrboro, NC, United States  
Wojciechowski, Marek, Cary, NC, United States  
Zhang, Honghua, San Diego, CA, United States  
Naser, Najih, Orlando, FL, United States  
Roe, R. Michael, Apex, NC, United States  
Stewart, Thomas N., Durham, NC, United States  
Thompson, Deborah M., Raleigh, NC, United States  
Sundseth, Rebecca, Durham, NC, United States  
Wegner, Steven E., Chapel Hill, NC, United States  
PA Andcare, Inc., Durham, NC, United States (U.S. corporation)  
PI US 6391558 B1 20020521  
AI US 2000-549853 20000414 (9)  
RLI Continuation-in-part of Ser. No. US 1998-44206, filed on 17 Mar 1998,  
now abandoned  
PRAI US 1997-40949P 19970318 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Riley, Jezia  
LREP Akerman Senterfitt  
CLMN Number of Claims: 27  
ECL Exemplary Claim: 1  
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)  
LN.CNT 4484  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB An electrochemical detection system which specifically detects selected nucleic acid segments is described. The system utilizes biological probes such as nucleic acid or peptide nucleic acid probes which are complementary to and specifically hybridize with selected nucleic acid segments in order to generate a measurable current when an **amperometric** potential is applied. The electrochemical signal can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

=> d his

(FILE 'HOME' ENTERED AT 12:55:58 ON 02 JUN 2005)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 12:56:18 ON  
02 JUN 2005

L1 6493 S BIOSENSOR? AND HYBRIDIZATION  
L2 195 S L1 AND AMPEROMETRIC  
L3 2 S L2 AND PULSE AMPEROMETRIC

=> s l2 and pulse  
L4 59 L2 AND PULSE

=> s l4 not l3  
L5 57 L4 NOT L3

=> dup rem 15  
PROCESSING COMPLETED FOR L5  
L6 57 DUP REM L5 (0 DUPLICATES REMOVED)

=> s l6 and monitor  
L7 46 L6 AND MONITOR

=> s l7 and current  
L8 46 L7 AND CURRENT

=> s l8 and plurality  
L9 38 L8 AND PLURALITY

=> s l9 and quantita?  
L10 16 L9 AND QUANTITA?

=> d 110 bib abs 1-16

L10 ANSWER 1 OF 16 USPATFULL on STN  
AN 2005:89282 USPATFULL  
TI Microfluidic devices with thick-film electrochemical detection  
IN Wang, Joseph, Las Cruces, NM, UNITED STATES  
Tian, Baomin, Las Cruces, NM, UNITED STATES  
Sahlin, Eskil, Pittsburgh, PA, UNITED STATES  
PA Arrowhead Center, Inc., Las Cruces, NM, UNITED STATES (U.S. corporation)  
PI US 6878255 B1 20050412  
AI US 2000-705100 20001102 (9)  
PRAI US 1999-163852P 19991105 (60)

DT Utility  
FS GRANTED

EXNAM Primary Examiner: Nguyen, Nam; Assistant Examiner: Mutschler, Brian L.

LREP Peacock Myers & Adams PC, Slusher, Stephen A.

CLMN Number of Claims: 82

ECL Exemplary Claim: 39

DRWN 40 Drawing Figure(s); 25 Drawing Page(s)

LN.CNT 2168

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An apparatus for conducting a microfluidic process and analysis, including at least one elongated microfluidic channel, fluidic transport means for transport of fluids through the microfluidic channel, and at least one thick-film electrode in fluidic connection with the outlet end of the microfluidic channel. The present invention includes an integrated on-chip combination reaction, separation and thick-film electrochemical detection microsystem, for use in detection of a wide range of analytes, and methods for the use thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 16 USPATFULL on STN

AN 2004:314610 USPATFULL

TI Electronic detection of biological molecules using thin layers

IN Sobha M., Pisharody, Castro Valley, CA, UNITED STATES  
Sandeep, Kunwar, Redwood City, CA, UNITED STATES  
Mathai, George T., Castro Valley, CA, UNITED STATES  
PI US 2004248282 A1 20041209  
AI US 2004-480409 A1 20040716 (10)  
WO 2002-US18319 20020610  
PRAI US 2001-9970087 20011002  
US 2001-297583P 20010611 (60)  
US 2002-378938P 20020510 (60)  
DT Utility  
FS APPLICATION  
LREP FENWICK & WEST LLP, SILICON VALLEY CENTER, 801 CALIFORNIA STREET,  
MOUNTAIN VIEW, CA, 94041  
CLMN Number of Claims: 158  
ECL Exemplary Claim: 1  
DRWN 30 Drawing Page(s)  
LN.CNT 2845  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB This invention provides novel sensors that facilitate the detection of  
essentially any analyte. In general, the **biosensors** of this  
invention utilize a binding agent (e.g. biomolecule) to specifically  
bind to one or more target analytes. In preferred embodiments, the  
biomolecules spans a gap between two electrodes. Binding of the target  
analyte changes conductivity of the sensor thereby facilitating ready  
detection of the binding event and thus detection and/or  
quantitation of the bound analyte.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 16 USPATFULL on STN  
AN 2004:292138 USPATFULL  
TI P450 single nucleotide polymorphism biochip analysis  
IN Chui, Buena, Chandler, AZ, UNITED STATES  
Elghanian, Robert, Skokie, IL, UNITED STATES  
Gupta, Vineet, Reading, MA, UNITED STATES  
Jayaraman, Krishnamurthy, Hoffman Estates, IL, UNITED STATES  
Kiser, Gretchen, Mesa, AZ, UNITED STATES  
Li, Changming, Schaumburg, IL, UNITED STATES  
Liu, Chang-Gong, Cherry Hill, NJ, UNITED STATES  
Luehrsen, Kenneth R., Half Moon Bay, CA, UNITED STATES  
Mazumder, Abhijit, Buffalo Grove, IL, UNITED STATES  
Ramakrishnan, Ramesh, Vernon Hills, IL, UNITED STATES  
Silbergleyt, Arkadiy, Chandler, AZ, UNITED STATES  
Tuggle, Todd, Oceanside, CA, UNITED STATES  
Yamashiro, Carl, Chandler, AZ, UNITED STATES  
Yowanto, Handy, Walnut, CA, UNITED STATES  
Pestova, Ekaterina, Downers Grove, IL, UNITED STATES  
Fermin, David R., Minneapolis, MN, UNITED STATES  
Wang, David G., Deerfield, IL, UNITED STATES  
Gu, Zhijie John, San Diego, CA, UNITED STATES  
PI US 2004229222 A1 20041118  
AI US 2002-114908 A1 20020401 (10)  
PRAI US 2001-280583P 20010330 (60)  
DT Utility  
FS APPLICATION  
LREP DORSEY & WHITNEY LLP, Suite 3400, Four Embarcadero Center, San  
Francisco, CA, 94111-4187  
CLMN Number of Claims: 48  
ECL Exemplary Claim: 1  
DRWN 44 Drawing Page(s)  
LN.CNT 4516

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to methods and compositions for determining  
single nucleotide polymorphisms (SNPs) in P450 genes. In preferred  
embodiments, self extension of interrogation probes is prevented by  
using novel non self-extension probes and/or methods, thereby improving  
the specificity and efficiency of P450 SNP detection in target samples  
with minimal false positive results. The invention thus describes a

variety of methods to decrease self-extension of interrogation probes. In addition, this invention provides a unique collection of P450 SNP probes on one assay, primer sequences for specific amplification of each of the seven P450 genes and amplicon control probes to evaluate whether the intended p450 gene targets were amplified successfully. The invention also describes a variety of array platforms for performing the assays of the invention; for example: CodeLink.TM., eSensor.TM., multiplex arrays with cartridges etc., all described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 16 USPATFULL on STN  
AN 2004:190094 USPATFULL  
TI ELECTRONIC DETECTION OF BIOLOGICAL MOLECULES USING THIN LAYERS  
IN Pisharody, Sobha M., Dublin, CA, UNITED STATES  
Kunwar, Sandeep, Redwood City, CA, UNITED STATES  
Mathai, George T., Dublin, CA, UNITED STATES  
PI US 2004146863 A1 20040729  
US 6824974 B2 20041130  
AI US 2001-970087 A1 20011002 (9)  
PRAI US 2001-297583P 20010611 (60)  
DT Utility  
FS APPLICATION  
LREP FENWICK & WEST LLP, SILICON VALLEY CENTER, 801 CALIFORNIA STREET,  
MOUNTAIN VIEW, CA, 94041  
CLMN Number of Claims: 165  
ECL Exemplary Claim: 1  
DRWN 18 Drawing Page(s)  
LN.CNT 2626

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel sensors that facilitate the detection of essentially any analyte. In general, the **biosensors** of this invention utilize a binding agent (e.g. biomolecule) to specifically bind to one or more target analytes. In preferred embodiments, the biomolecules spans a gap between two electrodes. Binding of the target analyte changes conductivity of the sensor thereby facilitating ready detection of the binding event and thus detection and/or **quantitation** of the bound analyte. A molecular sensing apparatus comprising.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 16 USPATFULL on STN  
AN 2004:113586 USPATFULL  
TI Multi-array, multi-specific electrochemiluminescence testing  
IN Wohlstadter, Jacob N., Rockville, MD, UNITED STATES  
Wilbur, James, Germantown, MD, UNITED STATES  
Signal, George, Rockville, MD, UNITED STATES  
Martin, Mark, Rockville, MD, UNITED STATES  
Guo, Liang-Hong, Gaithersburg, MD, UNITED STATES  
Fischer, Alan, Cambridge, MA, UNITED STATES  
Leland, Jon, Silver Spring, MD, UNITED STATES  
Billadeau, Mark A., Mt. Airy, MD, UNITED STATES  
Helms, Larry R., Germantown, MD, UNITED STATES  
Darvari, Ramin, Waltham, MA, UNITED STATES  
PI US 2004086423 A1 20040506  
AI US 2003-693441 A1 20031024 (10)  
RLI Division of Ser. No. US 1997-932110, filed on 17 Sep 1997, GRANTED, Pat. No. US 6673533 Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED, Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, ABANDONED  
DT Utility  
FS APPLICATION  
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT,  
919 THIRD AVENUE, NEW YORK, NY, 10022

CLMN Number of Claims: 108

ECL Exemplary Claim: 1

DRWN 47 Drawing Page(s)

LN.CNT 7253

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 16 USPATFULL on STN

AN 2004:70063 USPATFULL

TI Devices and methods for biochip multiplexing

IN Terbrueggen, Robert Henry, Hermosa Beach, CA, UNITED STATES

Blackburn, Gary F., Glendora, CA, UNITED STATES

Chason, Marc Kenneth, Schaumburg, IL, UNITED STATES

Dai, Xunhu, Gilbert, AZ, UNITED STATES

Eliacin, Manes, Buffalo Grove, IL, UNITED STATES

Grodzinski, Piotr, Santa Fe, NM, UNITED STATES

Irvine, Bruce Duncan, Glendora, CA, UNITED STATES

Kayyem, Jon Faiz, Pasadena, CA, UNITED STATES

Lian, Keryn Ke, Palatine, IL, UNITED STATES

Liu, Robin Hui, Chandler, AZ, UNITED STATES

O'Rourke, Shawn Michael, Tempe, AZ, UNITED STATES

Sheldon, Edward Lewis, III, Arcadia, CA, UNITED STATES

Zenhausern, Frederic, Fountain Hills, AZ, UNITED STATES

PI US 2004053290 A1 20040318

AI US 2003-412660 A1 20030411 (10)

RLI Continuation of Ser. No. US 2002-193712, filed on 11 Jul 2002, ABANDONED

Continuation-in-part of Ser. No. US 2001-904175, filed on 11 Jul 2001, PENDING Continuation-in-part of Ser. No. US 2001-993342, filed on 5 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2001-760384, filed on 11 Jan 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US44364, filed on 5 Nov 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US1150, filed on 11 Jan 2001, PENDING

PRAI US 2000-175539P 20000111 (60)

US 2000-245840P 20001103 (60)

DT Utility

FS APPLICATION

LREP DORSEY & WHITNEY LLP, INTELLECTUAL PROPERTY DEPARTMENT, 4 EMBARCADERO CENTER, SUITE 3400, SAN FRANCISCO, CA, 94111

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN 52 Drawing Page(s)

LN.CNT 6000

AB The invention is directed to devices that allow for simultaneous multiple biochip analysis. In particular, the devices are configured to hold multiple cartridges comprising biochips comprising arrays such as nucleic acid arrays, and allow for high throughput analysis of samples.

L10 ANSWER 7 OF 16 USPATFULL on STN

AN 2004:16354 USPATFULL

TI Method and apparatus for manipulating polarizable analytes via dielectrophoresis

IN Zenhausern, Frederic, Fountain Hills, AZ, UNITED STATES

Chou, Chia-Fu, Chandler, AZ, UNITED STATES

Terbrueggen, Robert Henry, Manhattan Beach, CA, UNITED STATES

PI US 2004011650 A1 20040122

AI US 2002-201613 A1 20020722 (10)

DT Utility

FS APPLICATION

LREP DORSEY & WHITNEY LLP, Four Embarcadero Center-Suite 3400, San Francisco,

CLMN CA, 94111-4187  
Number of Claims: 16  
ECL . Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 3262

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to devices and methods for manipulating polarizable analytes via dielectrophoresis to allow for improved detection of target analytes. Microfluidic devices are configured such that the application of a voltage between field-generating electrodes results in the generation of an asymmetric electric field within the device. Some embodiments of the invention provide a physical constriction, and electrically floating conductive material or a combination of the two techniques to generating an asymmetrical field. Using dielectrophoresis, target analytes are concentrated or separated from contaminant analytes and transported to a detection module.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 16 USPATFULL on STN  
AN 2004:4360 USPATFULL  
TI Multi-array multi-specific electrochemiluminescence testing  
IN Wohlstadter, Jacob N., Rockville, MD, United States  
Wilbur, James, Germantown, MD, United States  
Sigal, George, Rockville, MD, United States  
Martin, Mark, Rockville, MD, United States  
Guo, Liang-Hong, Gaithersburg, MD, United States  
Fischer, Alan, Cambridge, MA, United States  
Leland, Jon, Silver Spring, MD, United States  
Billadeau, Mark A., Mt. Airy, MD, United States  
Helms, Larry R., Germantown, MD, United States  
Darvari, Ramin, Waltham, MA, United States  
PA Meso Scale Technologies, LLC., Gaithersburg, MD, United States (U.S. corporation)  
PI US 6673533 B1 20040106  
AI US 1997-932110 19970917 (8)  
RLI Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996, now patented, Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, now patented, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, now abandoned Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, now abandoned  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Chin, Christopher L.  
LREP Kramer Levin Naftalis & Frankel LLP, Evans, Esq., Barry  
CLMN Number of Claims: 92  
ECL Exemplary Claim: 1  
DRWN 87 Drawing Figure(s); 47 Drawing Page(s)  
LN.CNT 7196

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 16 USPATFULL on STN  
AN 2003:152720 USPATFULL  
TI Methods for the specific detection of redox-active tags and the use thereof for capillary gel electrophoresis and DNA sequencing  
IN Kuhr, Werner G., Oak Hills, CA, UNITED STATES  
Brazill, Sara A., Diamond Bar, CA, UNITED STATES

PA The Regents of the University of California (U.S. corporation)  
PI US 2003104386 A1 20030605  
AI US 2001-945238 A1 20010831 (9)  
DT Utility  
FS APPLICATION  
LREP Patrick G. Burns, Esq., Greer, Burns & Crain, Ltd., 300 So. Wacker  
Drive, Suite 2500, Chicago, IL, 60606  
CLMN Number of Claims: 67  
ECL Exemplary Claim: 1  
DRWN 8 Drawing Page(s)  
LN.CNT 2093

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel approach to the specific detection of redox-active moieties (e.g.) in a population of redox-active moieties. In particular this invention provides a "phase-nulling" technique that can be used in the electrochemical detection of redox-active tags. The signal for each tag is selectively eliminated while the other tag's response remains virtually unchanged. This novel analysis scheme allows for the simple identification of a tag of interest in a complex matrix and is demonstrated with both flow injection analysis and capillary gel electrophoresis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 16 USPATFULL on STN  
AN 2003:17898 USPATFULL  
TI VR-OAC, an osmotically activated channel protein, nucleic acids  
encoding it, and uses thereof  
IN Liedtke, Wolfgang, New York, NY, UNITED STATES  
Heller, Stefan, Rockland, MA, UNITED STATES  
Hudspeth, Albert James, New York, NY, UNITED STATES  
Friedman, Jeffrey M., New York, NY, UNITED STATES  
PA The Rockefeller University, New York, NY (U.S. corporation)  
PI US 2003013650 A1 20030116  
AI US 2001-27828 A1 20011025 (10)  
PRAI US 2000-243568P 20001026 (60)  
DT Utility  
FS APPLICATION  
LREP KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK, NJ, 07601  
CLMN Number of Claims: 14  
ECL Exemplary Claim: 1  
DRWN 30 Drawing Page(s)  
LN.CNT 4279

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the identification in vertebrate animals, including humans, of an ion channel which is involved in osmoregulation and mechanoreception. This ion channel, named VR-OAC, functions as a cation channel which is activated by osmotic and mechanical stimulation. In particular, the present invention relates to the broad applications of VR-OAC that capitalize on its newly discovered properties and activities, including both diagnostic and therapeutic methodologies. The invention further relates to methods for using the receptor therapeutically, such as polypeptide or gene therapy, diagnostically, and to methods and assays for identification and screening of VR-OAC analogs, agonists or antagonists and uses thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 16 USPATFULL on STN  
AN 2002:314658 USPATFULL  
TI Devices and methods for biochip multiplexing  
IN Doung, Hau H., Los Angeles, CA, UNITED STATES  
Blackburn, Gary, Glendora, CA, UNITED STATES  
Kayyem, Jon F., Pasadena, CA, UNITED STATES  
O'Connor, Stephen D., Pasadena, CA, UNITED STATES  
Olsen, Gary T., La Crescenta, CA, UNITED STATES  
Pietri, Robert, Pasadena, CA, UNITED STATES  
Swami, Nathan, South Pasadena, CA, UNITED STATES

PI Terbrueggen, Robert H., Manhattan Beach, CA, UNITED STATES  
US 2002177135 A1 20021128  
AI US 2001-904175 A1 20010711 (9)  
RLI Continuation of Ser. No. US 2001-760384, filed on 11 Jan 2001, PENDING  
Continuation of Ser. No. WO 2001-US1150, filed on 11 Jan 2001, UNKNOWN  
PRAI US 2000-175539P 20000111 (60)  
US 1999-145840P 19990727 (60)  
DT Utility  
FS APPLICATION  
LREP FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero  
Center, San Francisco, CA, 94111-4187  
CLMN Number of Claims: 23  
ECL Exemplary Claim: 1  
DRWN 42 Drawing Page(s)  
LN.CNT 5001

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to devices that allow for simultaneous  
multiple biochip analysis. In particular, the devices are configured to  
hold multiple cartridges comprising biochips comprising arrays such as  
nucleic acid arrays, and allow for high throughput analysis of samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 16 USPATFULL on STN  
AN 2002:310615 USPATFULL  
TI Compositions and methods for analyte detection  
IN Cote, Gerard L., College Station, TX, United States  
Pishko, Michael V., College Station, TX, United States  
Sirkar, Kaushik, College Station, TX, United States  
Russell, Ryan, College Station, TX, United States  
Anderson, Richard Rox, Lexington, MA, United States  
PA The Texas A&M University System, College Station, TX, United States  
(U.S. corporation)  
The General Hospital Corporation, Boston, MA, United States (U.S.  
corporation)

PI US 6485703 B1 20021126  
AI US 1999-354914 19990709 (9)  
PRAI US 1998-94980P 19980731 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Hartley, Michael G.  
LREP Howrey Simon Arnold & White, LLP  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN 23 Drawing Figure(s); 16 Drawing Page(s)  
LN.CNT 4501

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided are a variety of chemically sensitive, stable (insoluble over a  
specified period of time), nontoxic, and non-antigenic hydrogel  
particles which undergo a measurable change in at least one  
electrochemical or optical property as a function of interaction with  
one or more substance(s) to be detected. Also provided are methods of  
using these hydrogel particles to detect one or more selected analytes,  
and in certain aspects detect one or more analytes in vivo. Further  
provided are devices used to detect and measure the optical or  
electrochemical changes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 16 USPATFULL on STN  
AN 2001:185038 USPATFULL  
TI Nucleic acid-coupled colorimetric analyte detectors  
IN Charych, Deborah H., Albany, CA, United States  
Jonas, Ulrich, Mainz, Germany, Federal Republic of  
PA Regents of the University of California, Oakland, CA, United States  
(U.S. corporation)  
PI US 6306598 B1 20011023  
AI US 1999-337973 19990621 (9)

RLI Continuation-in-part of Ser. No. US 1999-461509, filed on 14 Dec 1999  
Division of Ser. No. US 1996-592724, filed on 26 Jan 1996, now patented,  
Pat. No. US 6001556 Continuation-in-part of Ser. No. US 1993-159927,  
filed on 30 Nov 1993 Continuation-in-part of Ser. No. US 1992-976697,  
filed on 13 Nov 1992 Continuation-in-part of Ser. No. US 2000-500295,  
filed on 8 Feb 2000 Division of Ser. No. US 1997-920501, filed on 29 Aug  
1997, now patented, Pat. No. US 6022748 Continuation-in-part of Ser. No.  
US 1998-103344, filed on 23 Jun 1998 Continuation-in-part of Ser. No. US  
1996-609312, filed on 1 Mar 1996 Continuation-in-part of Ser. No. US  
1995-389475, filed on 13 Feb 1995, now abandoned Continuation-in-part of  
Ser. No. US 1994-289384, filed on 11 Aug 1994, now abandoned  
Continuation-in-part of Ser. No. US 1996-328237, filed on 24 Oct 1996,  
now abandoned Continuation-in-part of Ser. No. US 1997-944323, filed on  
8 Oct 1997 Division of Ser. No. US 1995-389475, filed on 13 Feb 1995,  
now abandoned Continuation-in-part of Ser. No. US 1994-289384, filed on  
11 Aug 1994, now abandoned Continuation-in-part of Ser. No. US  
1998-23898, filed on 13 Feb 1998 Continuation-in-part of Ser. No. US  
1998-33557, filed on 2 Mar 1998

PRAI US 1998-90266P 19980622 (60)  
US 1997-50496P 19970623 (60)  
US 1997-38383P 19970214 (60)  
US 1997-39749P 19970303 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Riley, Jezia

LREP Medlen & Carroll, LLP

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 60 Drawing Figure(s); 53 Drawing Page(s)

LN.CNT 4877

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods and compositions for the direct detection of analytes and membrane conformational changes through the detection of color changes in biopolymeric materials. In particular, the present invention provide for the direct colorimetric detection of analytes using nucleic acid ligands at surfaces of polydiacetylene liposomes and related molecular layer systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 16 USPATFULL on STN

AN 2001:155603 USPATFULL

TI Multi-array, multi-specific electrochemiluminescence testing

IN Wohlstadter, Jacob N., Rockville, MD, United States

Wilbur, James, Rockville, MD, United States

Sigal, George, Gaithersburg, MD, United States

Martin, Mark, Rockville, MD, United States

Guo, Liang-Hong, Laurel, MD, United States

Fischer, Alan, Cambridge, MA, United States

Leland, Jon, Silver Spring, MD, United States

Billadeau, Mark A., Mt. Airy, MD, United States

PA Meso Scale Technologies, LLC (U.S. corporation)

PI US 2001021534 A1 20010913

AI US 2001-771796 A1 20010129 (9)

RLI Continuation of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED,  
Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804,  
filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part  
of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED  
Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995,  
ABANDONED

DT Utility

FS APPLICATION

LREP Kramer Levin Naftalis & Frankel LLP, 919 THIRD AVENUE, NEW YORK, NY,  
10022

CLMN Number of Claims: 74

ECL Exemplary Claim: 1

DRWN 39 Drawing Page(s)

LN.CNT 6383

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 16 USPATFULL on STN

AN 2001:43927 USPATFULL

TI Multi-array, multi-specific electrochemiluminescence testing

IN Wohlstadter, Jacob N., Rockville, MD, United States

Wilbur, James, Rockville, MD, United States

Sigal, George, Gaithersburg, MD, United States

Martin, Mark, Rockville, MD, United States

Guo, Liang-Hong, Laurel, MD, United States

Fischer, Alan, Cambridge, MA, United States

Leland, Jon, Silver Spring, MD, United States

Billadeau, Mark A., Mt. Airy, MD, United States

PA Meso Scale Technologies, LLC, Gaithersburg, MD, United States (U.S. corporation)

PI US 6207369 B1 20010327

AI US 1996-715163 19960917 (8)

RLI Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, now patented, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, now abandoned Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Chin, Christopher L.

LREP Kramer Levin Naftalis & Frankel LLP

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 87 Drawing Figure(s); 47 Drawing Page(s)

LN.CNT 6321

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 16 USPATFULL on STN

AN 2001:10712 USPATFULL

TI Nucleic acid mediated electron transfer

IN Meade, Thomas J., Altadena, CA, United States

Kayyem, Jon Faiz, Pasadena, CA, United States

Fraser, Scott E., La Canada-Flintridge, CA, United States

PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)

PI US 6177250 B1 20010123

AI US 1999-306737 19990507 (9)

RLI Continuation of Ser. No. US 1996-660534, filed on 7 Jun 1996, now patented, Pat. No. US 5770369 Continuation of Ser. No. US 1995-475051, filed on 7 Jun 1995, now patented, Pat. No. US 5824473 Continuation of Ser. No. US 1993-166036, filed on 10 Dec 1993, now patented, Pat. No. US 5591578

DT Utility

FS Granted

EXNAM Primary Examiner: Zitomer, Stephanie W.

LREP Flehr Hohbach Test Albritton & Herbert LLP, Trecartin, Esq., Richard F.,

Silva, Esq., Robin M.

CLMN Number of Claims: 19

ECL.. Exemplary Claim: 1

DRWN 35 Drawing Figure(s); 8 Drawing Page(s)

LN.CNT 2518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides for the selective covalent modification of nucleic acids with redox active moieties such as transition metal complexes. Electron donor and electron acceptor moieties are covalently bound to the ribose-phosphate backbone of a nucleic acid at predetermined positions. The resulting complexes represent a series of new derivatives that are bimolecular templates capable of transferring electrons over very large distances at extremely fast rates. These complexes possess unique structural features which enable the use of an entirely new class of bioconductors and photoactive probes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>